PEO EIS Industry Day

15 March 2005

LandWarNet, A perspective: PEO EIS from Foxhole to Factory

LTG Steven W. Boutelle

21st Century Security Environment: An Era of Uncertainty and Unpredictability

— a blurring of familiar distinctions between war and peace.

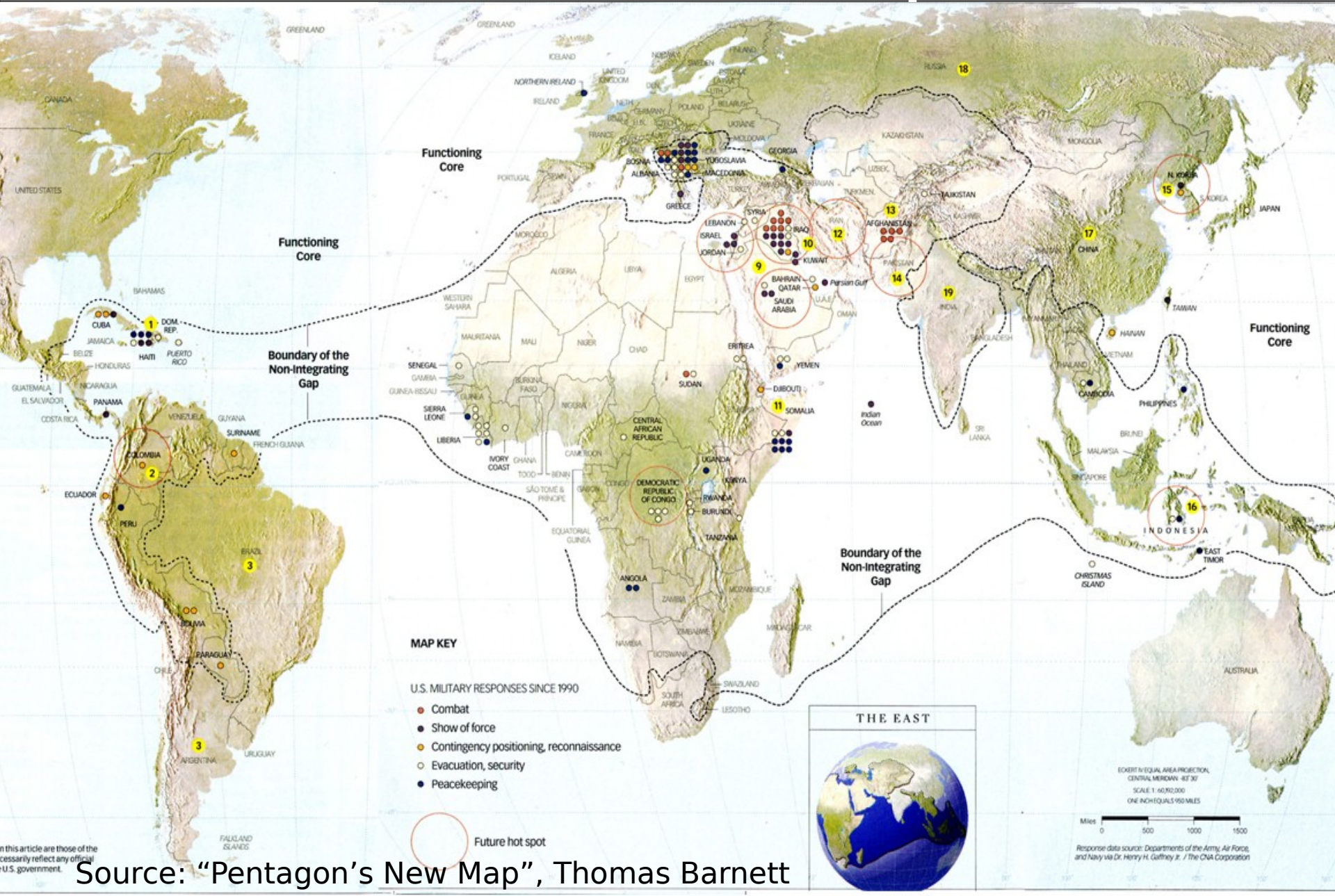
"Fueled by *an ideology that promotes intractable hatred,* this *war will endure* in some form *for the foreseeable future*.....

.....*must* therefore *be prepared to sustain operations during a period of persistent conflict* ....

..... this is *the most significant feature of the* current and anticipated *operating context."*

Fiscal Year 2005 Army Game Plan
1 November 2004

Potential Hot Spots



Source: “Pentagon’s New Map”, Thomas Barnett

Army Global Commitments

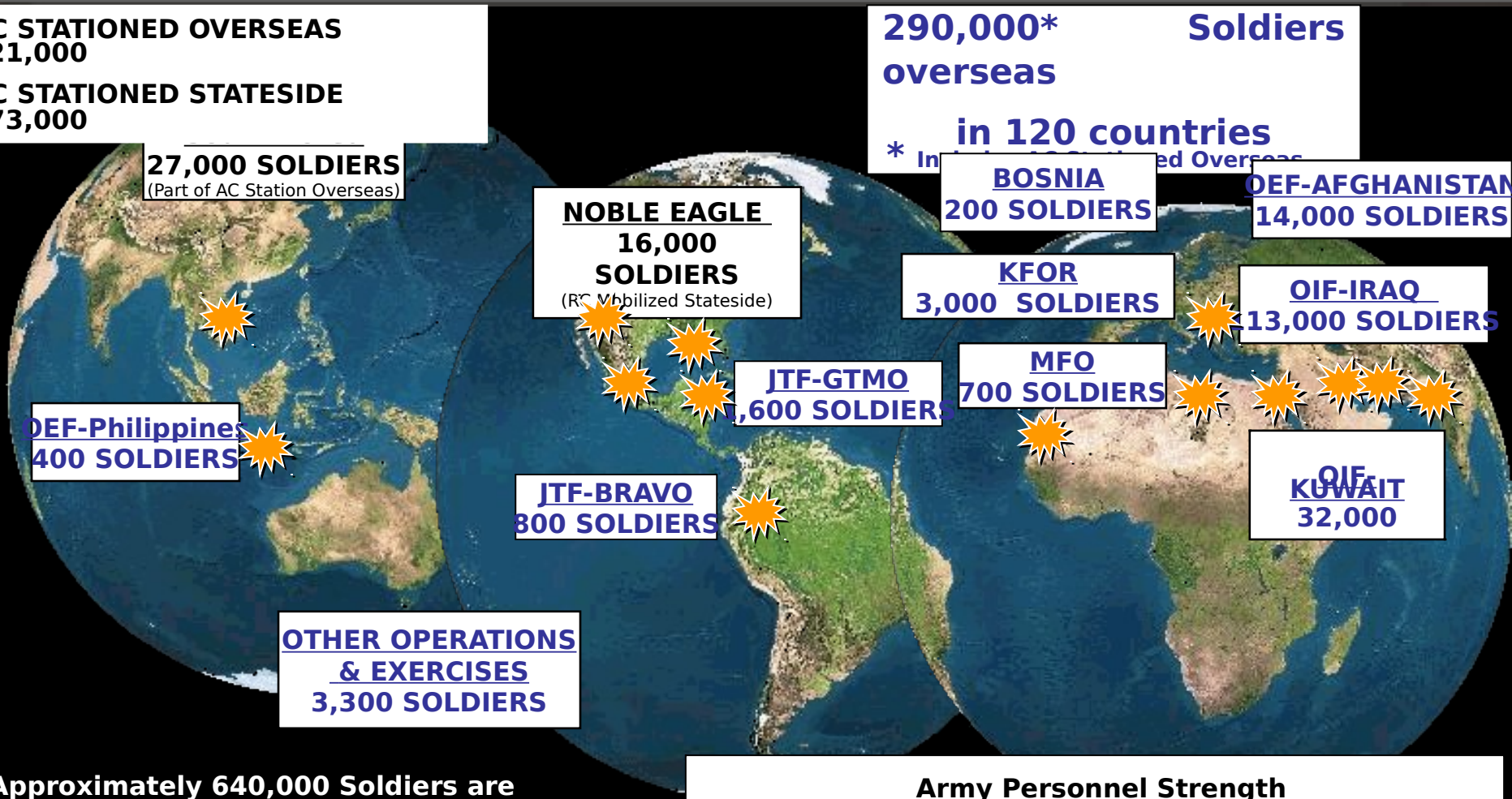
AC STATIONED OVERSEAS
121,000

AC STATIONED STATESIDE
373,000

290,000* Soldiers overseas

in 120 countries

* In[illegible]ed Overseas



- **Approximately 640,000 Soldiers are serving on active duty**
- **A large Army civilian workforce (over 250,000), reinforced by contractors, supports our Army**

2005 Army Posture Statement

AS OF 21 Feb 05

Army Personnel Strength

Component	Current Orders	R/C Authorized for Mobilization / On
- Active (AC)	494,000	N/A
- Reserve (RC)		
USAR	200,000	48,000
ARNG	334,000	108,000
	1,028,000	

Arrival Ceremony for the Secretary of the Army

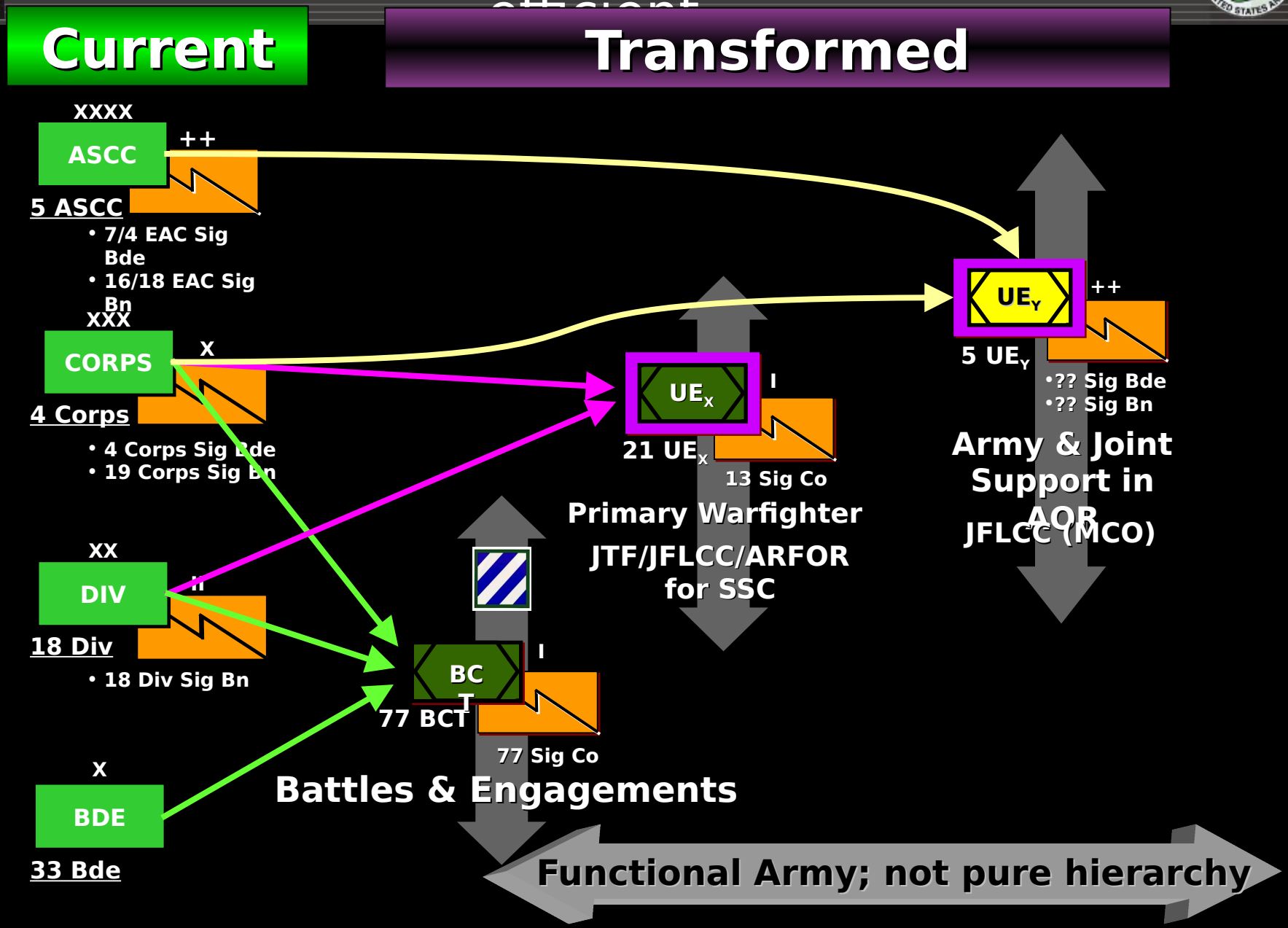
6 December 2004

"…..The technology that is at the ***center of Transformation is Information Technology***.

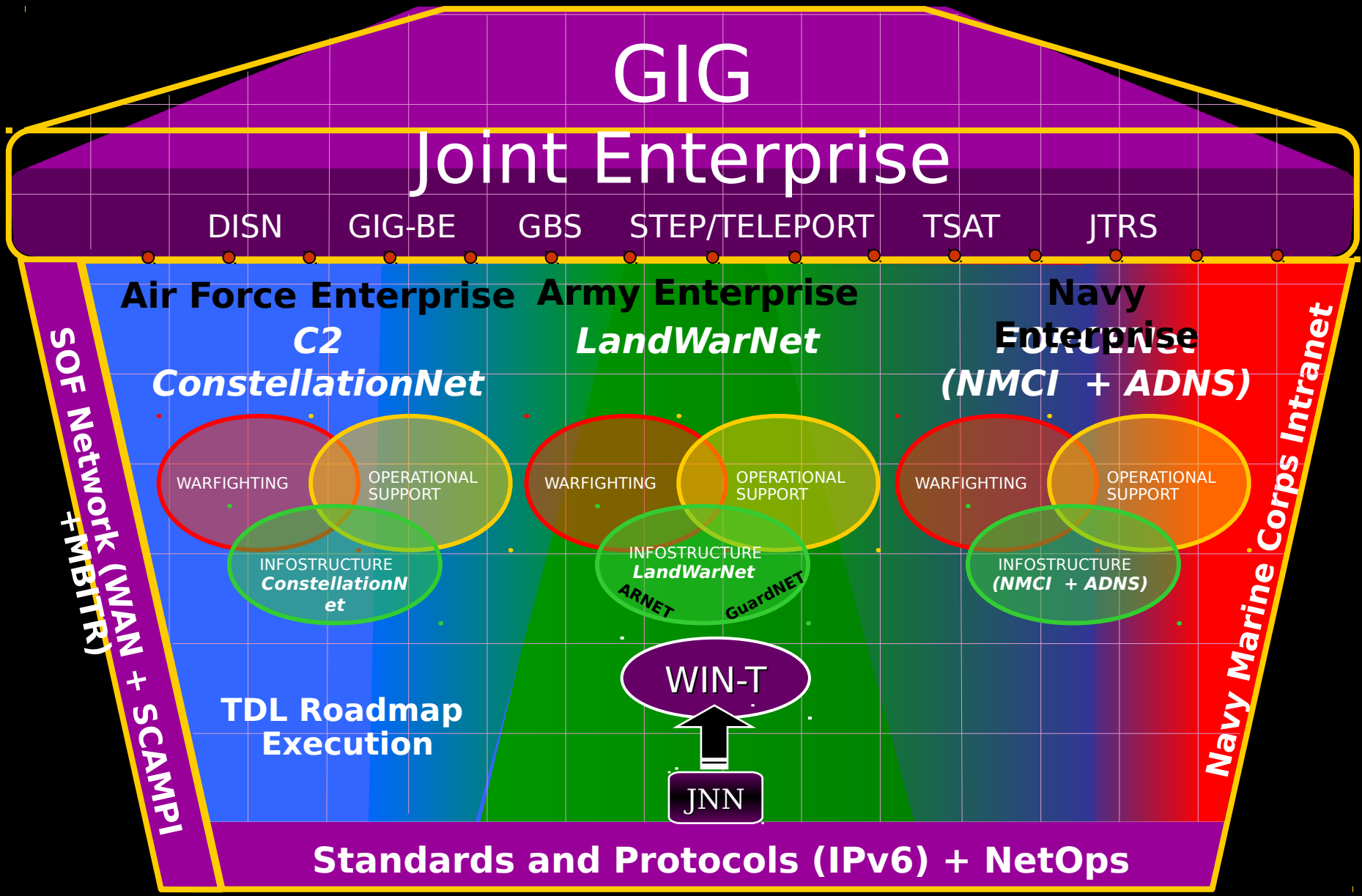
The ***long term goa*** Transformation…….. ***an organization that is capable of conducting Network Centric Operations***, …… in a totally joint fashion, to include our allies and partners."

"…… a ***network centric capable force is one that is robustly networked*** ……., ***fully interoperable*** and ***shares information*** and collaborates ***by means of a communications and***

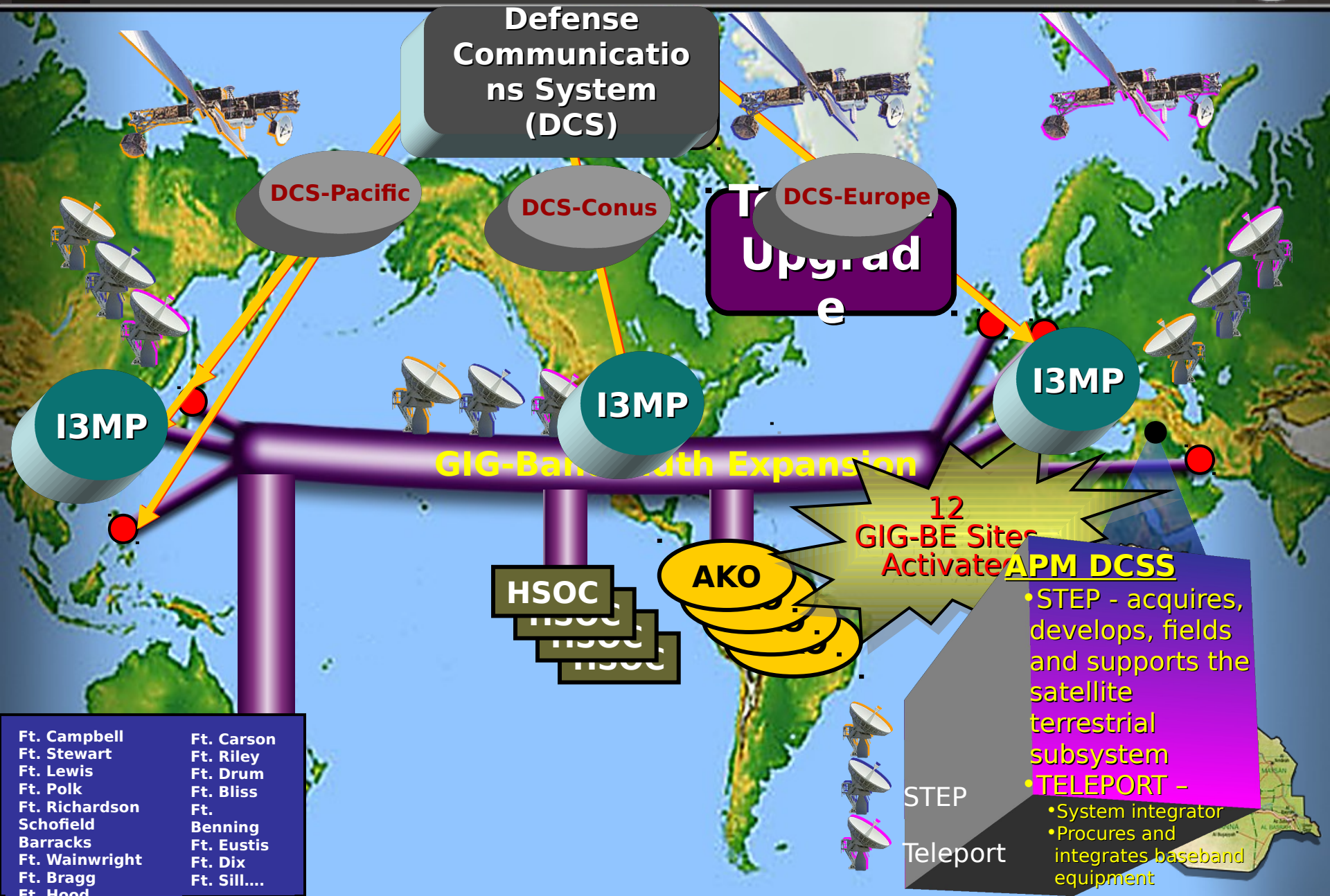
…Brigade centric, and more versatile and efficient



Global Information Grid (GIG)



DISN (GIG-BE) 2004 - 2007



Installation Information Infrastructure Modernization Program (I3MP)

Upgrading and expanding Army Installation Networks worldwide

I3MP Extends GIG-BE onto Posts, Camps and Stations

I3MP Components

- ✓ Secure and Non-Secure Voice: MACOM Telephone Modernization Program/Defense Information System Network – Europe/Extended Korean Improvement Program.
- ✓ NIPR and SIPR Common User Installation Transport Network.
- ✓ Connectivity to GIG and GIG Bandwidth Expansion: Army DISN Router Program.
- ✓ Outside Cable Rehabilitation.
- ✓ Installation Information Assurance Architecture.
- ✓ E-mail and storage servers.

Starting in FY 2005

- FT Stewart & HAAF
- FT Benning & DTA
- FT Campbell
- FT Hood
- FT Drum
- FT Carson & PC
- FT Bragg
- Schofield Barracks & WAAF
- FT Lewis & YFC
- FT Polk
- FT Richardson/ Wainwright
- FT Riley
- FT Bliss
- Yongsan Garrison
- Camp Ederle (Vicenza)
- Camp Humphreys
- Grafenwoehr East Camp
- Camp Zama
- Grafenwoehr Training Area
- Camp Walker
- Patch Barracks
- FT Irwin & NTC

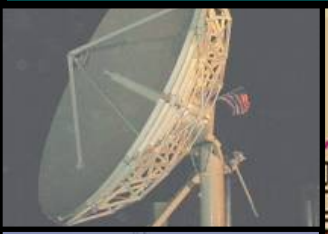
Elements of Modularity

- ✓ Conversions to UA/BCT
- ✓ NIPR *and* SIPR to Battalion and Company
- ✓ Expanded digital training, i.e. multipurpose digital training ranges, etc.
- ✓ Motor Pools and Logistics Points
- ✓ New or additional UA/BCT
- ✓ Global l and re-stationi

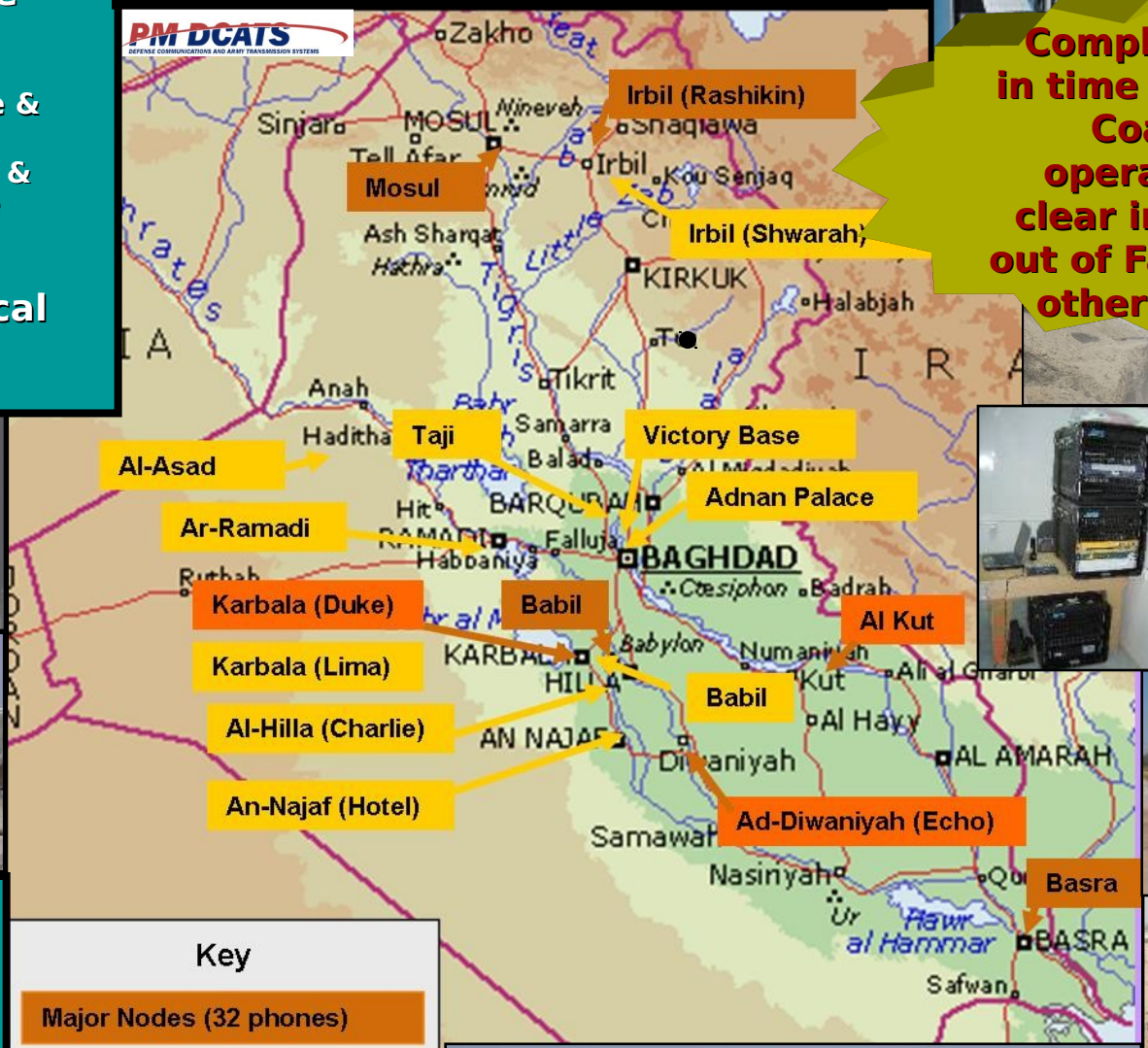
Kuwait-Iraq C4 Commercialization

- **Build & Extend the GIG in the AOR**
  - **Build - Camp infrastructure & connectivity**
  - **Extend - CMN & transportable commercial systems**
- **Reduce tactical signal unit support**

Coalition Military Network Sites



- Fiber
- SATCOM
- Microwave
- Tech Control Facilities
- Cabling



Completed CMN in time to support Coalition operations to clear insurgents out of Fallujah and other hotbeds

Communications Transition

Tactical to Commercial

Priority …build theater infrastructure backbone versus replace specific units

Capitalize on infrastructure as it matures

FY03- Replaced
2.5 "Unique" Battalion units

- 86th Signal Battalion
- 40th Signal Battalion
- 269th Signal Compa
- 578th Signal Compan

FY04 - Replaced
- 2 EAC Battalions
- 2 Troposphere

- 72d Signal Battalio
- 67th Signal Battalion
- 321st Signal Company (N
- 143rd Signal Company (N

Provide sufficient assets to support sustainable rotations

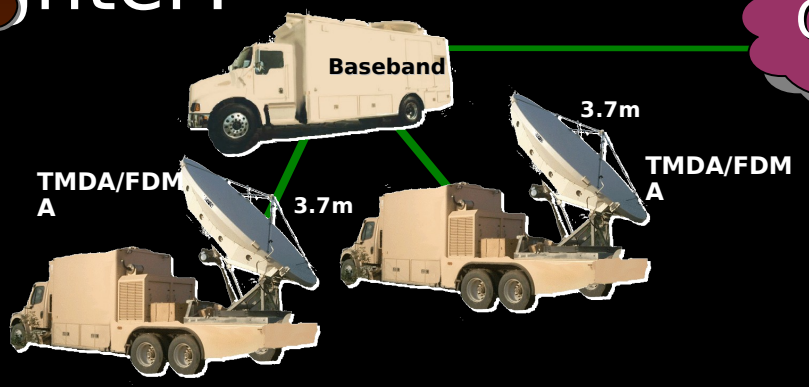
70% of signal assets committed to the first

JNTC - S1

What does it provide to the Warfighter?

"Converged IP"

- Voice over IP
- NIPR/SIPR
- VTC/SVTC
- DSN/DRSN
- Commercial & Military SATCOM



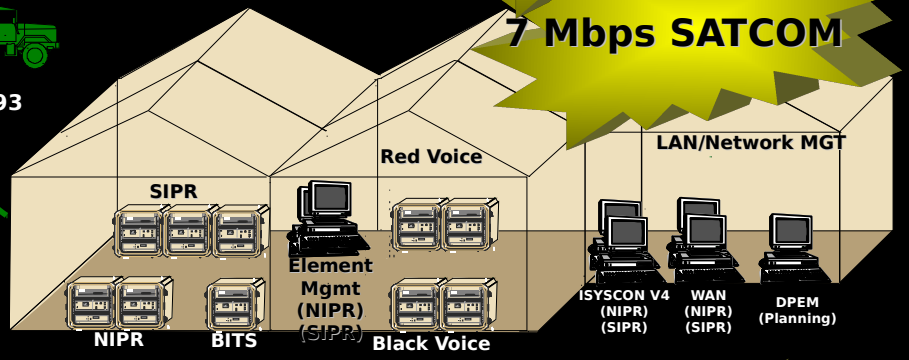
GIG/DISN

Deploying Now!

Provides up to 76 Mbps Of Commercial SATCOM Bandwidth

UEx/ Brigade Combat Team

4 Mbps TDMA
3 Mbps FDMA
(Shared Among Bns)

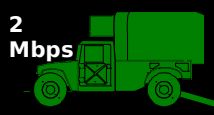


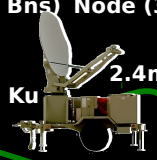
Spiral in:

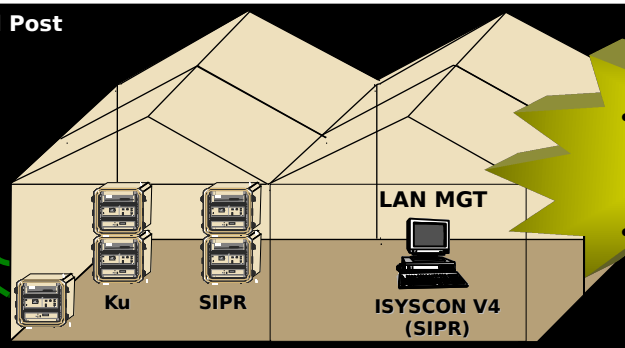
- Ka Band
- Operations on the move ….Ka and Ku
- Wireless LAN

4 Mbps TDMA (Shared Among Bns)

Command Post Node (34)







- 4 Mbps Shared SATCOM
- 2 Mbps LOS

Spiraling Forward WIN-T

FY04 Reprogrammed Funds

FY05 Supplemental Funds

FY04

OIF 3

3 ID

S1

FY05

OIF 4

101 AASLT

4 ID

10 MTN

S2 S3 S4

FY06

OIF 5

1 CAV

25 ID

82 ABN

S5 S6 S7

FY07

OIF 6

(Correct Number of Notional Units)

2 ID

1 ID

1 AR

2/25

30 HVY

81 HVY

39 IN

SBCT 5

BCT BCT BCT

LRIP

FY08

OIF 7

(Correct Number of Notional Units)

56

SBCT 6

WIN-T IOT&E UNIT?

TEST & LRIP

FY07-11 APOM

FMTVs/Required Dates

3 1/5/05 | 3 1/5/05 | 3 1/5/05 | 3 Jun 05 | 3 Jun 05 | 3 Oct 05

Supplemental

Capability

WIN-T Enhanced

UEy?

WIN-T IOT&E Unit Fielding

WIN-T Upgrade

Reset OIF 3 – 5

Regional Hub (NETCOM)

Regional Hub (NETCOM)

Refit 3ID

Regional Hubs in DISA Teleports

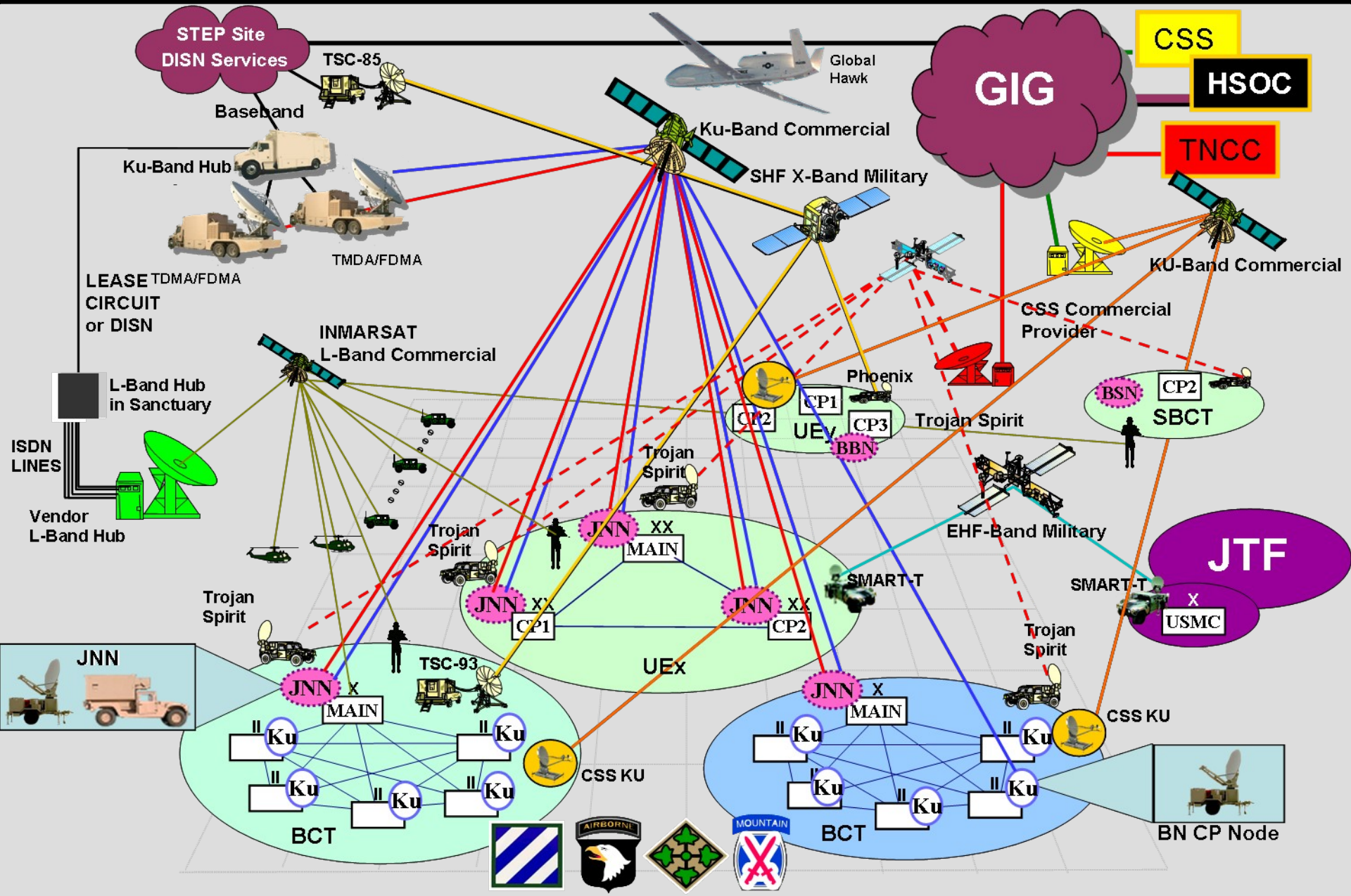
Qatar

Victory

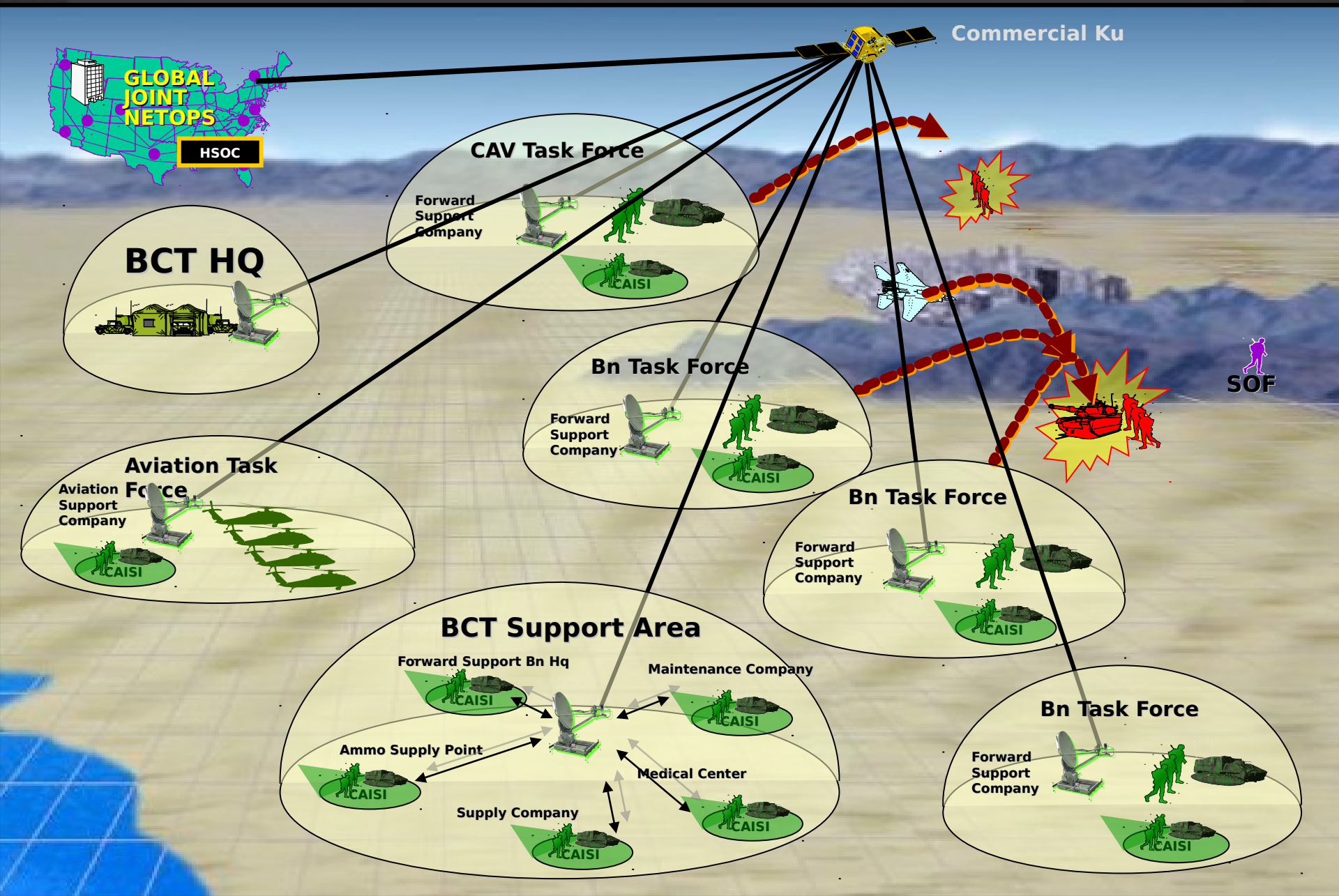
AUG 04

FCS Spiral 1

LandWarNet: JNTC – S



CSS Communications in Modularity



JNTC-S Network Components
"CSS"

DOD LOGISTICS IS UNCLASSIFIED

JNTC - S1

Strategic

Commercia
l Lines

GIG/DISN

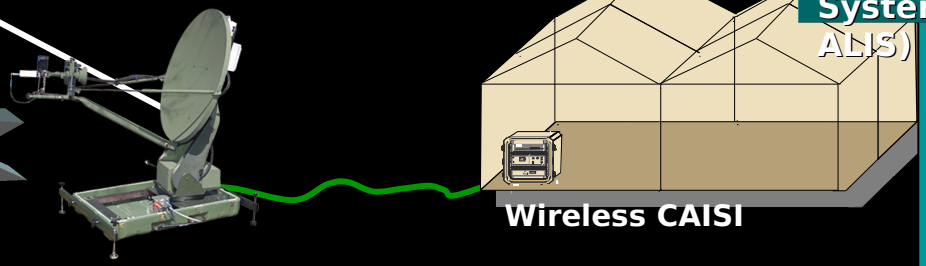
Delivered May 2004!

Commercial KU SATCOM

Commercial SATCOM Facility

Product Manager, Automated Logistics and Integrated Systems (PdM ALIS)

UEy/UEx/BCT - Forward Support Batta

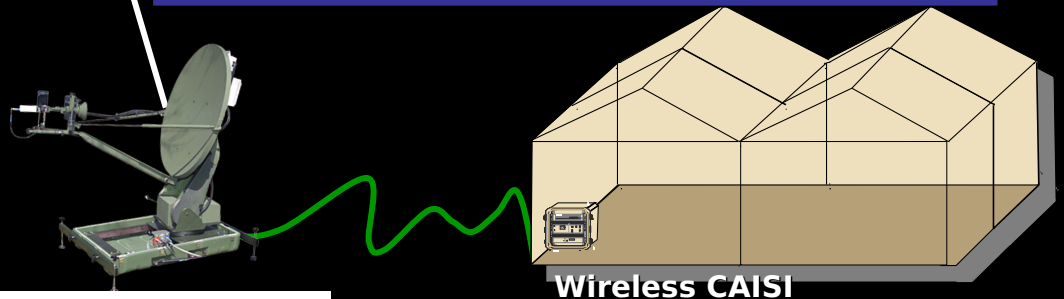


40 Total

Wireless CAISI

256 Kbps Upload
2 Mbps Download

Battalion – Forward Support Company



Wireless CAISI

STAMIS

GCSS-A

ULLS-A
ULLS-G
SAMS-1
SAMS-I/TDA

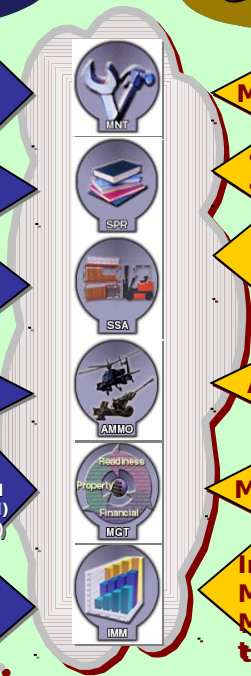
SPBS-R
ULLS-S4

SARSS-1
SARSS-2AD
(partial)

SAAS-MOD
ATP/DAO

ILAP
SAMS-2
SARSS-2AD (partial
SARSS-2AC (partial)
SARSS-GW (partial)

SARSS-2AD
SARSS-2AC/B
SARSS-GW
SAAS-MMC ASP



Maintenance

•Supply
•Property

Supply
Support
Activity

Ammunition

Management

Integrated
Materiel
Managemen
t

PM DCATS
DEFENSE COMMUNICATIONS AND ARMY TRANSMISSION SYSTEMS

Product Manager, Defense Wide Transmission Systems (PM DWTS)

Organize via IT Portfolios

- ***Battlespace Communications***
- ***Focused Logistics***
- ***Protection***
- ***Force Applications***
- ***Battlespace Awareness***

VCSA GEN Richard A. Cody

Work In Progress

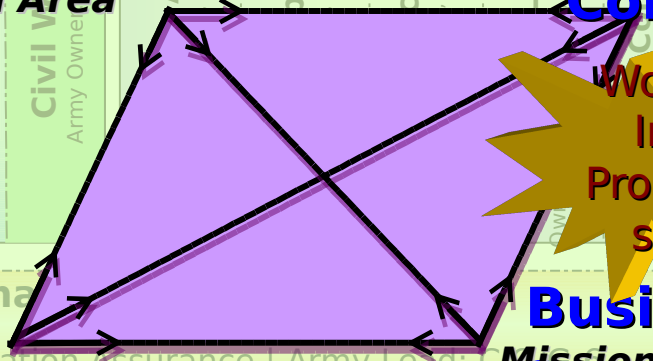
- ***National***
- ***International***
- ***Military***

G-2 LTG Keith B. Alexander

Work In Progress

Warfighting Mission Area

Intel Community Mission Area

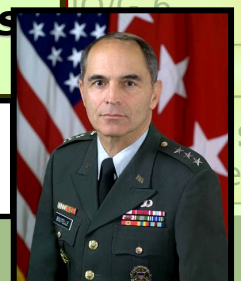


Work In Progress

Enterprise Information Environment Mission Area

Business Mission Area

- ***Communications***
- ***Computing Infrastructure***
- ***Core Enterprise Services***
- ***Information Assurance***

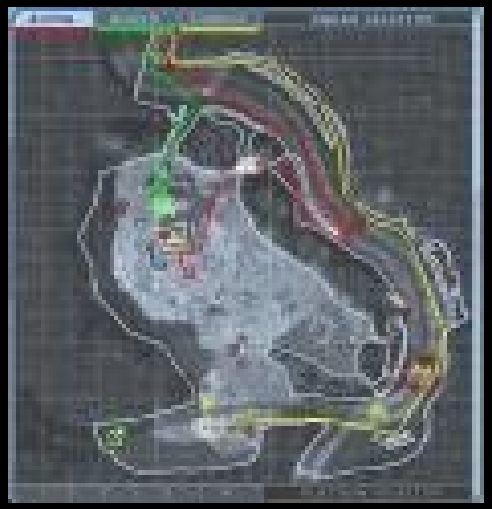


CIO/G-6 LTG Steven W. Boutelle

Acting USA The Hon. Ray Dubois

- ***Installations & Environment***
- ***Human Resource Management***
- ***Financial Management***
- ***Acquisition***
- ***Logistics***

Identify Data Standards: Tactical

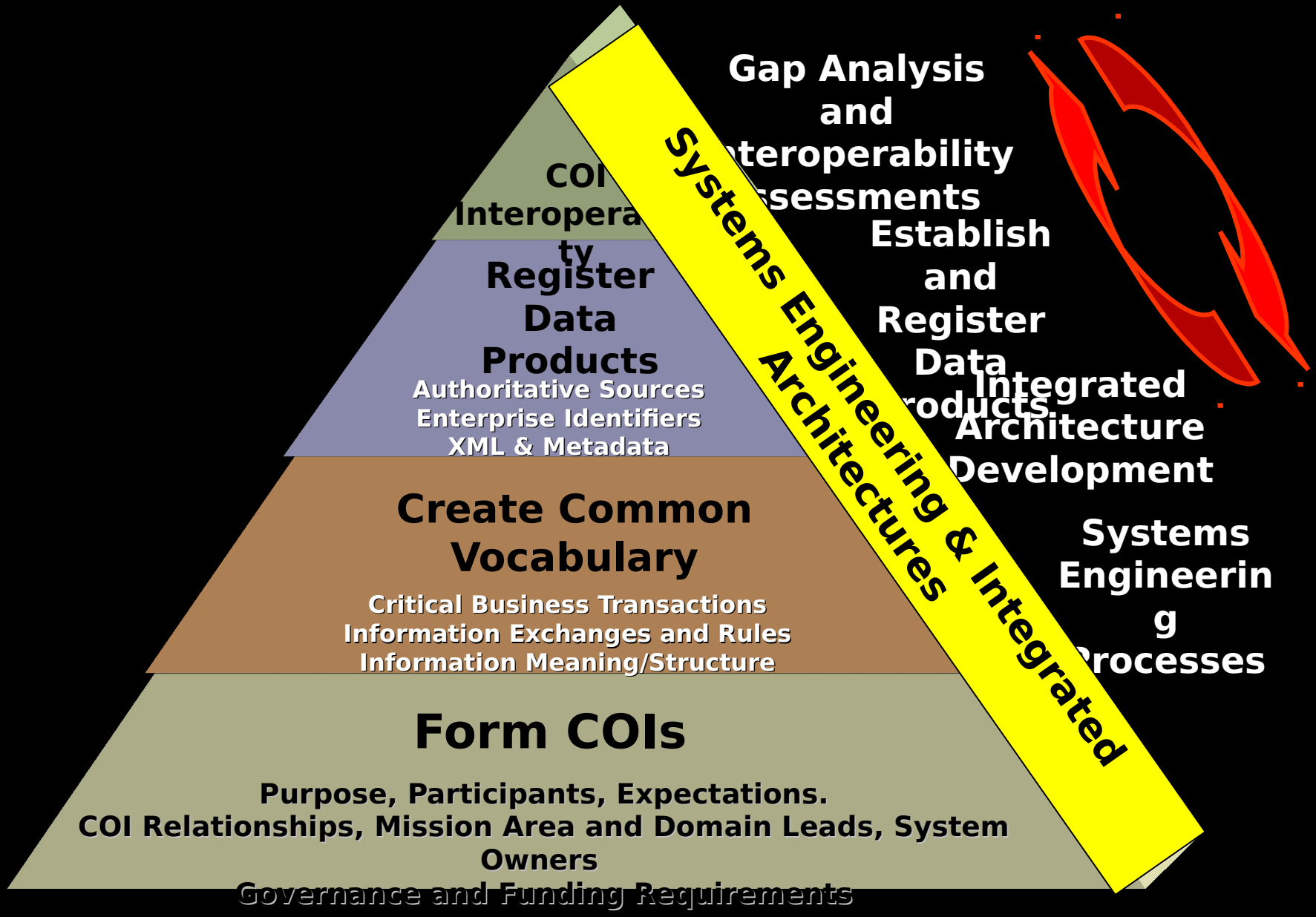


Which is the Authoritative Data Source for Target Location?

LTC Emery

PFC Smith

Standards: Data Strategy



Logistics and Supply Chain Management

PM ELS

- Implement tactical ERP component of SALE
- Provide GCSS-A ERP - support CSS Transformation Vision
  - Deliver right information, at right time to right place
  - Reduce logistics footprint on battlefield
- The Plan.
  - First - supply and maintenance
  - Second - integrate with finance, human resource, medical, transportation and many other CSS functions
  - And Then - interface with FCS

PM AIT - upgraded Theater Distribution Center (TDC)

- Upgraded RFID capabilities
- TDC - no capability to write tags for container/pallet breakdown and reconsolidation area
- Automated Manifest System (AMS) software provides the tag-writing capability
- Cargo data downloaded to computer and RFID tags written with the contents of containers/pallets

Linking
Business
ssion Area
apabilities
nd to end
through
nterprise
Re
Pl

National
Strategi

Maintenanc

In-Process

Fort/Facto

Factory
to
Foxhole

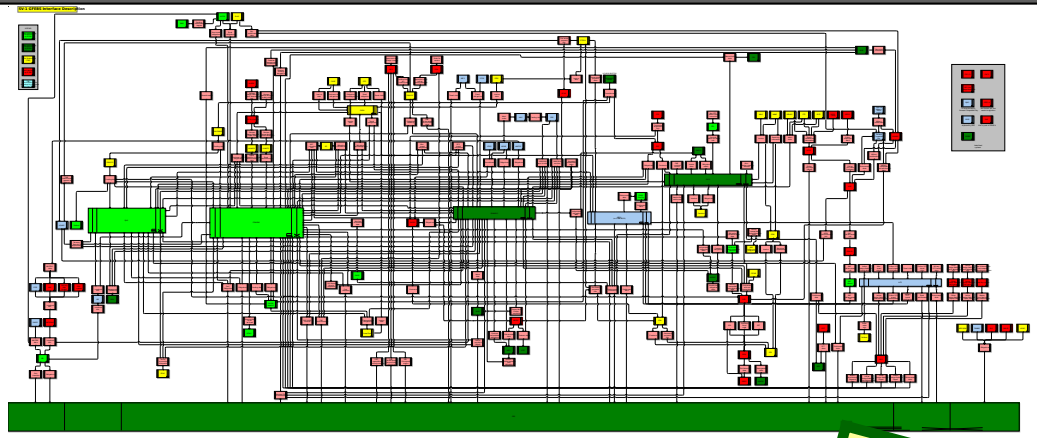
Product Manager, Defense Wide Transmission Systems (PM DWTS)

- Fielded Deployable Port Operations Center (DPOC) to the 595th Transportation Terminal Group Forward (Provisional) -
  - Suite of IT systems contained in an 8 x 20 ft shelter
  - Satellite connectivity (FSAT)
  - Deployable office
    - NIPRNET
    - SIPRNET
    - VTC
    - fax
    - "same IT capabilities they have

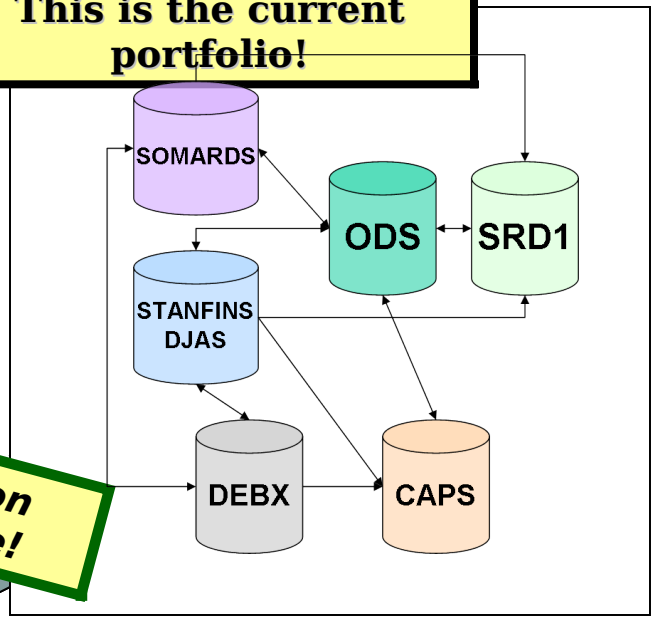
Operation
al

PODs

GFEBS

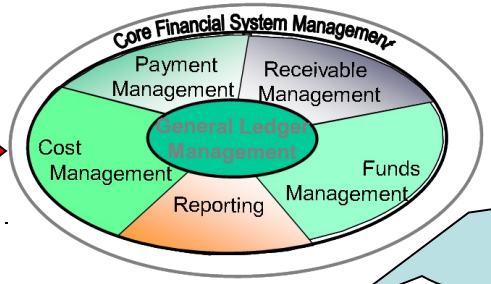


This is the current portfolio!



Integration Nightmare!

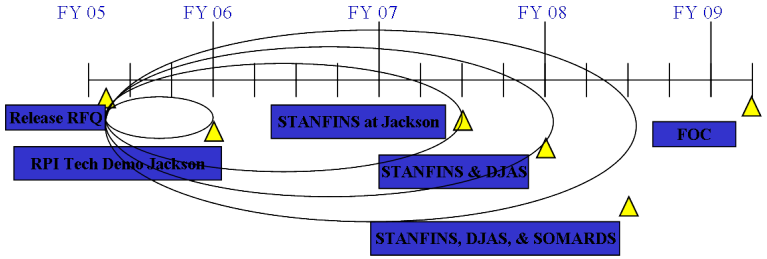
What
(Scope of the Buy)



Why
(Business Case)

- Army Business Transformation
- Divest costly infrastructure
- Improve readiness reporting
- Positive ROI

When
(Cost and Schedule)

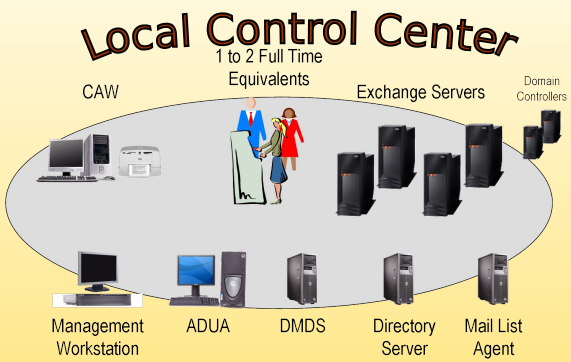


"The Need"

- **A Modern Financial Capability to Support the Modular, Joint, and Expeditionary Army**
- **Timely, Reliable, Accurate Financial Data for Decision Making**
- **Replace Legacy Systems and Processes that Prevent Reliable Budget Execution**
- **Comply with Laws and Regulations**

DMS-Army Modernization

Today



Local Control Centers:
89

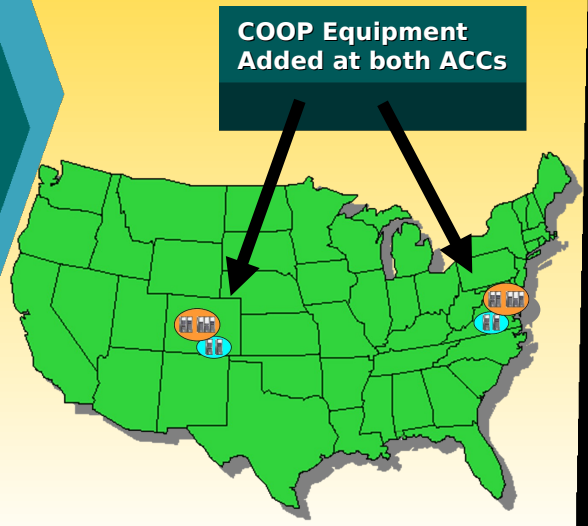
DMS Servers:
908

Motivation

- Supports SA/CSA's AKM Goal 3 initiatives
  - Aligns with the Army Enterprise Infostructure campaign plan
  - Maximizes the GIG
  - Improve DMS-Army operational availability and performance
- Reduces Total Cost of Ownership (TCO):
  - Software licensing
  - Hardware maintenance and tech refresh
  - O & M
- Improves management - smaller footprint
  - Deploy software changes faster and less obtrusively
  - Improved monitoring of system health
  - Improved configuration management control
  - Simplified management of IAVAs and network defense
  - Reduced resources to operate and maintain

Objective

User access
- Via web-client
- Authenticate using CAC—Fortezza moved to ACC
- Small presence needed at user locations to assist with troubleshooting

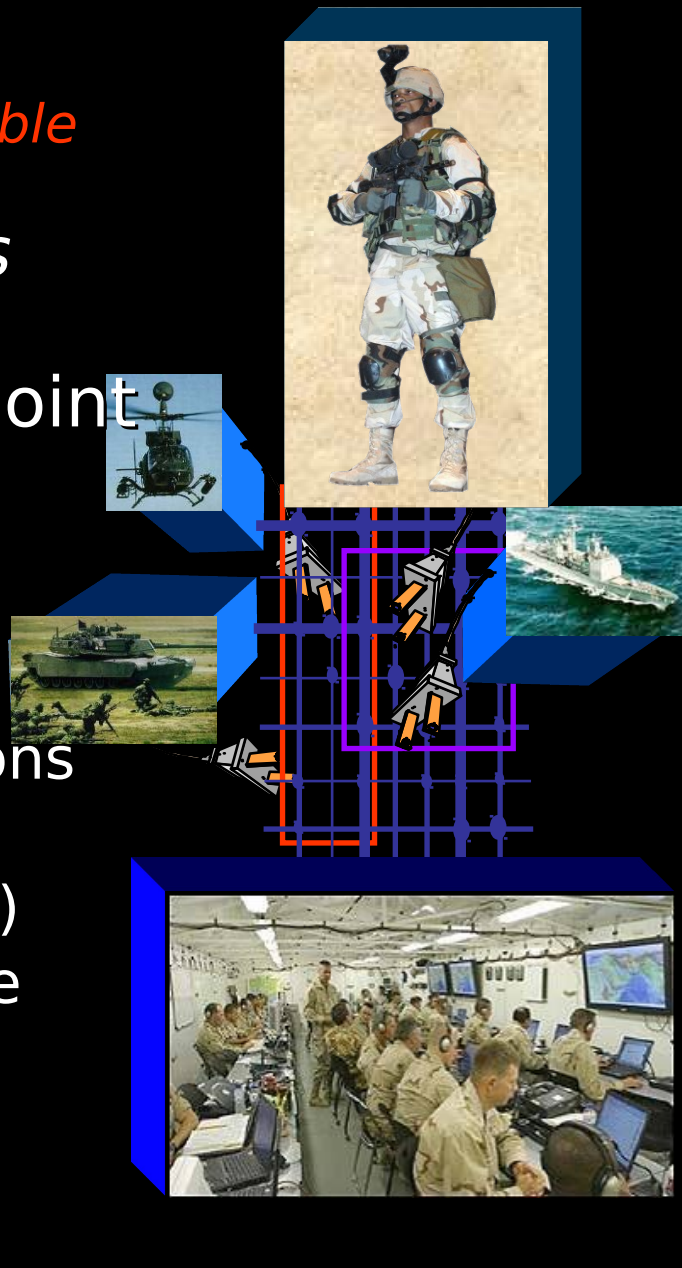


Area Control Centers:
2

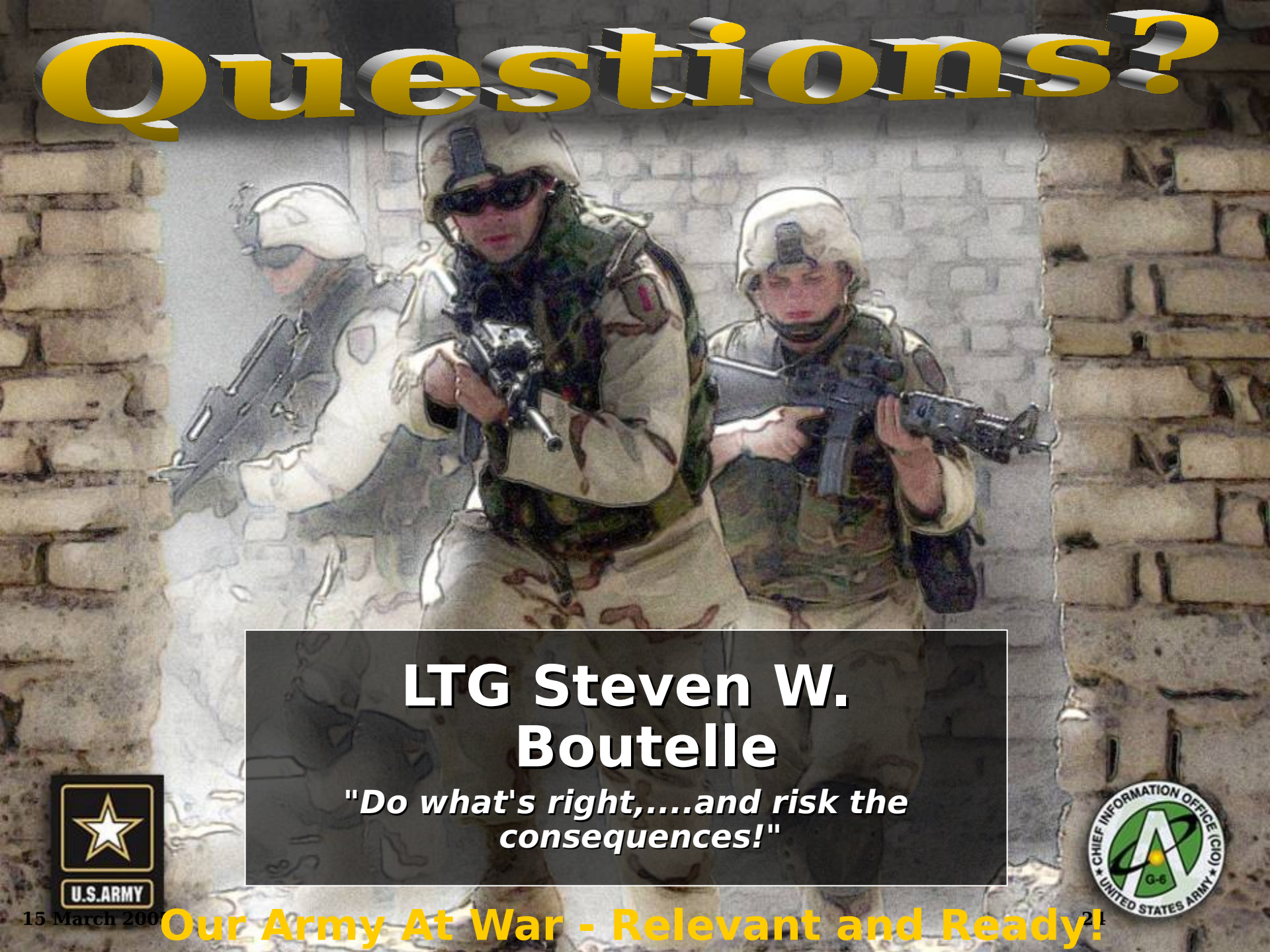
DMS Servers:
90

Take Away's

- Adapting to a new Reality!
  - *....a war that will endure for the foreseeable future*
- *"The Center of Transformation is Information Technology"*
- The Army is fielding advanced "Joint Interdependent" networking capabilities NOW!
- PEO EIS - providing solutions ....from factory to foxhole
  - ✓ Integrating strategic communications
  - ✓ Modernizing the infrastructure
  - ✓ Providing enterprise solutions (ERP)
  - ✓ Getting "stuff" where it needs to be (RFID)
  - ✓ Commercializing the AOR network
  - ✓ Providing Logistic Communications solutions



Questions?



LTG Steven W. Boutelle

"Do what's right,....and risk the consequences!"